

ABSTRACT OF THE DISCLOSURE

Translation apparatus for moving a cartridge access device along a displacement path may comprise a first elongate gear rack aligned along the displacement path and a second elongate gear rack positioned in spaced-apart relation to the first elongate gear rack so that the second elongate gear rack is aligned along the displacement path. A first drive pinion mounted to the cartridge access device engages the first elongate gear rack. A second drive pinion mounted to the cartridge access device engages the second elongate gear rack. A pinion drive apparatus operatively associated with the first and second drive pinions rotates the first and second drive pinions to move the cartridges access device along the first and second elongate gear racks.